

IN THE CLAIMS:

Claims 1-4, 8-14, 16-19, 22, 29, 32-36 are amended herein. All pending claims and their present status are produced below.

1. (Currently amended) In ~~an~~ a multithreaded analytic application executed by a source computer system and capable of concurrent execution of multiple session threads, a method for transferring data ~~in a networked analytic application environment~~, the method comprising:

receiving an incoming request for analytic data resident in a mass storage unit on the source computer system;

authenticating the incoming request;

spawning a session thread that reads and parses a command received via the incoming request, the command for sending the data ~~within the networked analytic application environment~~ to a second computer system; and concurrently executing a plurality of data transformation threads within the session thread, comprising

a reader thread that reads data and writes ~~writing~~ at least a part of the data into to a first data block buffer;

a compressor thread that compresses ~~compressing~~ the part of the data in the first data block buffer into a compressed data block ~~that is written and~~ writes the compressed data block to a second data block buffer;

an encryptor thread that encrypts ~~encrypting~~ the compressed data block in the second data block buffer into an encrypted and compressed data block ~~that is written and~~ writes the encrypted and compressed data block to a third data block buffer; and

a writer thread that reads the encrypted and compressed data block in the third data block buffer ~~sending and sends~~ the encrypted and compressed data block to the second computer system ~~within the networked analytic application environment~~.

2. (Currently amended) The method of Claim 1 further comprising:
verifying that data transfer to the second computer system is complete.
3. (Currently amended) The method of Claim 1 further comprising:
verifying that data transfer to the second computer system is without error.
4. (Currently amended) The method of Claim 1 wherein the source computer system and the second computer system are networked via analytic application environment is the Internet.
5. (Previously presented) The method of Claim 1 wherein the data comprises data processed by an analytic application.
6. (Previously presented) The method of Claim 1 wherein the incoming request uses Extensible Markup Language (XML).
7. (Previously presented) The method of Claim 1 wherein spawning a session thread further comprises:
translating the command into a plurality of tasks;
storing the tasks in a task table in a given order; and
executing the tasks in order until a task ending the session thread is found.
8. (Currently amended) The method of Claim 1 wherein the first data block buffer and the second data block buffer are substantially equal in size and wherein ~~ecompressing further comprises:~~

~~accumulating compressed data blocks before data are written to the second data block buffer, wherein enough compressed data blocks are accumulated to fill the second data block buffer before the compressor thread writes to a second data block buffer.~~

9. (Currently amended) The method of Claim 1 wherein the second data block buffer and the third data block buffer are substantially equal in size and wherein ~~encrypting the compressed data block further comprises:~~

~~accumulating encrypted and compressed data blocks before data are written to the third data block buffer, wherein enough encrypted and compressed data blocks are accumulated to fill the third data block buffer before the encryptor thread writes to the third data block buffer.~~

10. (Currently amended) The method of Claim 1 further comprising:
restoring a connection with the second computer system when an ongoing connection is lost; and

resuming transfer of data to the second computer system at the point in the data where the ongoing connection was lost.

11. (Currently amended) In a first multithreaded analytic application executed by a target computer system and capable of concurrent execution of multiple session threads, a method for receiving data transferred from a source computer system in a networked analytic application environment, the method comprising:

issuing a request for data to a the source computer system on which the data resides,
the source computer system executing a second multithreaded analytic application;

spawning a session thread in response to a message from the source computer system;
receiving from the source computer system at least one encrypted and compressed data block of the data, ~~the encrypted and compressed data block transferred within the networked analytic application environment~~; and

concurrently executing a plurality of data transformation threads within the session thread, comprising

a reader thread for writing the encrypted and compressed data block to a first data block buffer;

a decryptor thread for decrypting the encrypted and compressed data block into a compressed data block ~~that is written and writing the compressed data block~~ to a second data block buffer; and

a decompressor thread for decompressing the compressed data block in the second data block buffer and writing a resultant data block to a third data block buffer.

12. (Currently amended) The method of Claim 11 further comprising:

verifying that data transfer from the source computer system was complete.

13. (Currently amended) The method of Claim 11 further comprising:

verifying that data transfer from the source computer system was without error.

14. (Currently amended) The method of Claim 11 wherein the target computer system and the source computer system are networked via analytic application environment is the Internet.

15. (Previously presented) The method of Claim 11 wherein the data comprises data processed by an analytic application.

16. (Currently amended) The method of Claim 11 wherein decrypting further comprises:

accumulating a plurality of encrypted and compressed data blocks accumulate before data decryption is performed the decryptor thread executes.

17. (Currently amended) The method of Claim 11 wherein ~~decompressing further comprises:~~

~~accumulating a plurality of compressed data blocks accumulate before data decompression is performed the decompressor thread executes.~~

18. (Currently amended) The method of Claim 11 further comprising:
restoring a connection with the source computer system when an ongoing connection
is lost; and

resuming transfer of data from the source computer system at the point in the data
where the ongoing connection was lost.

19. (Currently amended) A source computer system comprising:
a bus;
a memory unit coupled to the bus; and
a multithreaded analytic application stored in the memory unit, and comprising:
~~a processor coupled to the bus, the processor for executing a method for transferring~~
~~data in a networked analytic application environment, the processor executing~~
~~an application further comprising:~~
a listener object for receiving an incoming request for data resident in a mass
storage unit on the source computer system;
protocol for authenticating the incoming request;
a session manager object for spawning a session thread that reads and parses a
command received via the incoming request, the command for sending
the data ~~in the networked analytic application environment~~ to a second
computer system;
a reader channel object for reading data and writing at least a part of the data
into to a first data block buffer;

a compressor channel object for compressing the part of the data in the first data block buffer into a compressed data block ~~that is written and writing the compressed data block~~ to a second data block buffer;

an encryptor channel object for encrypting the compressed data block in the second data block buffer into an encrypted and compressed data block ~~that is written and writing the encrypted and compressed data block~~ to a third data block buffer; and

a writer channel object for reading the encrypted and compressed data block in the third data block buffer and sending the encrypted and compressed data block to the second computer system ~~in the networked analytic application environment, wherein the application executes the reader channel object, the compressor channel object, the encryptor channel object, and the writer channel object concurrently; and~~

a processor coupled to the bus, the processor configured for executing the multithreaded analytic application.

20. (Previously presented) The source computer system of Claim 19 wherein the processor is further configured for verifying that data transfer to the second computer system is complete.

21. (Previously presented) The source computer system of Claim 19 wherein the processor is further configured for verifying that data transfer to the second computer system is without error.

22. (Currently amended) The source computer system of Claim 19 wherein the source computer system and the second computer system are networked via analytic application environment is the Internet.

23. (Previously presented) The source computer system of Claim 19 wherein the data comprises data processed by an analytic application.

24. (Previously presented) The source computer system of Claim 19 wherein the incoming request uses Extensible Markup Language (XML).

25. (Previously presented) The source computer system of Claim 19 wherein the session manager object is further configured for:
translating the command into a plurality of tasks;
storing the tasks in a task table in a given order; and
executing the tasks in order until a task ending the session thread is found.

26. (Previously presented) The source computer system of Claim 19 wherein the first data block buffer and the second data block buffer are substantially equal in size and wherein the compressor channel object is further configured for:
accumulating compressed data blocks before data are written to the second data block buffer, wherein enough compressed data blocks are accumulated to fill the second data block buffer.

27. (Previously presented) The source computer system of Claim 19 wherein the second data block buffer and the third data block buffer are substantially equal in size and wherein the encryptor channel object is further configured for:
accumulating encrypted and compressed data blocks before data are written to the third data block buffer, wherein enough encrypted and compressed data blocks are accumulated to fill the third data block buffer.

28. (Previously presented) The source computer system of Claim 19 wherein the processor is further configured for:
restoring a connection with the second computer system when an ongoing connection is lost; and
resuming transfer of data to the second computer system at the point in the data where the ongoing connection was lost.

29. (Currently amended) A target computer system comprising:
a bus;
a memory unit coupled to the bus; and
~~a processor coupled to the bus, the processor for executing a method for receiving data transferred in a networked analytic application environment, the processor executing an application further comprising:~~
a multithreaded analytic application stored in the memory unit, and comprising:
a first session thread for issuing a request for data to a source computer system on which the data resides;
a session manager object for spawning a session thread in response to a message from the source computer system;
a listener object for receiving from the source computer system at least one encrypted and compressed data block ~~of the data, the encrypted and compressed data block transferred over the computer network;~~
a reader channel object for reading data and writing at least part of the encrypted and compressed data block to a first data block buffer;
a decryptor channel object for decrypting the encrypted and compressed data block into a compressed data block ~~that is written and writing the compressed data block~~ to a second data block buffer; and
a decompressor channel object for decompressing the compressed data block in said the second data block buffer and writing a resultant data block to a third data block buffer, wherein the application executes the reader

channel object, the decryptor channel object, and the decompressor channel object concurrently; and
a processor coupled to the bus, the processor configured for executing the multithreaded analytic application.

30. (Previously presented) The target computer system of Claim 29 wherein the processor is further configured for verifying that data transfer from the source computer system was complete.

31. (Previously presented) The target computer system of Claim 29 wherein the processor is further configured for verifying that data transfer from the source computer system was without error.

32. (Currently amended) The target computer system of Claim 29 wherein the target computer system and the source computer system are networked analytic application environment is via the Internet.

33. (Currently amended) The target computer system of Claim 29 wherein the data file comprises data processed by an analytic application.

34. (Currently amended) The target computer system of Claim 29 wherein the decryptor channel object is further configured for accumulating encrypted and compressed data blocks before data decryption is performed decrypting the encrypted and compressed data blocks.

35. (Currently amended) The target computer system of Claim 29 wherein the decompressor channel object is further configured for

accumulating compressed data blocks before ~~data decompression is performed~~
decompressing the compressed data blocks.

36. (Currently amended) The target computer system of Claim 29 wherein the processor is further configured for:

restoring a connection with the ~~server~~ source computer system when an ongoing connection is lost; and
resuming transfer of data from the ~~server~~ source computer system at the point in ~~said~~ the data where ~~said~~ the ongoing connection was lost.